

## **IN THE CLAIMS**

**1. (previously presented)** A communications system comprising:

a server providing information;

a terminal communicating data with the server;

a communications network connecting said server to said terminal;

a temporary line disconnection unit, provided in the server and the terminal,  
monitoring a content of received data from the server and from the terminal, and when  
specified data is received, disconnecting a line being used for data communications  
without issuing any disconnection notifications to an upper layer application of said  
terminal and said server when said terminal voice communicates with a third party other  
than said server through said communications network during the data communications  
with said server, and automatically connecting said server to said terminal when the voice  
communications terminate;

an automatic data fetch unit automatically fetching data of web sites including  
information requested by a user from said server to said terminal; and

a storage unit storing the data fetched by said automatic data fetch unit,

wherein a data communicating process is performed from a status at a point  
immediately before starting the voice communications when said server and said terminal  
resume the data communications, and

wherein said automatic data fetch unit preliminarily fetches the data obtainable  
from said server and stores the data in said storage unit during the data communications,  
and accesses said storage unit during the voice communications so that the data in said

storage unit is displayed during the voice communication, thereby realizing virtual data communications during the voice communications.

**2. (original)** The communication system according to claim 1, wherein  
said terminal obtains a telephone number of the third party as information during the data communications.

**3. (previously presented)** The communication system according to claim 1,  
wherein  
said server comprises a telephone switch unit; and  
said temporary line disconnection unit temporarily disconnects a line between  
said server and said terminal when said terminal issue a voice communications request to  
the third party, connecting said telephone switch unit to telephones of the third party and  
said terminal, connecting two calls on a server side, thereby realizing voice  
communications between said terminal and the third party.

**4. (previously presented)** The communications system according to claim 3,  
wherein

said temporary line disconnection unit provided on the server side temporarily  
disconnects the line between said terminal and said server when said terminal issues a  
request for voice communications with the third party to said server; and

said server, a telephone of said third party and said terminal enter a 3-point  
communications state based on a 3-point communication function of said telephone  
switch unit, thereby realizing the voice communications between said terminal and said  
third party.

**5. (previously presented)** The communications system according to claim 1, wherein

said temporary line disconnection unit provided on a terminal side temporarily disconnects the line when said terminal issues a request for voice communications with the third party to said server; and

said terminal issues a voice communications call to the third party, thereby realizing the voice communications between said third terminal and said third party.

**6. (previously presented)** The communications system according to claim 1, further comprising

at least one first unit, provided on a server side for each user who receives a service of said server, for managing personal information and communications status of each user, wherein

said temporary line disconnection unit provided on a terminal side temporarily disconnects a line between said terminal and said server according to an instruction from said first unit when said terminal issues a request for voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with an other object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**7. (canceled)**

**8. (previously presented)** The communication system according to claim 1,  
further comprising:

a unit for receiving said automatic data fetch unit on a terminal side, wherein  
said automatic data fetch unit is transmitted from a server side to the terminal side  
when the data communications start.

**9. (previously presented)** A communications method comprising the steps of:

(a) connecting a line from a server to a terminal for providing information for data  
communications with the server through a communications network;

(b) monitoring a content of received data from the server and from the terminal,  
and when a specified data is received, disconnecting a line being used for data  
communications without issuing any disconnection notifications to an upper layer  
application of said terminal and said server when said terminal voice communicates with  
a third party other than said server through said communications network during the data  
communications with said server, and automatically connecting said server to said  
terminal when the voice communications terminate;

(d) automatically fetching data of web sites including information requested by a  
user from said server; and

(e) storing the data fetched at step (d),

wherein said upper layer applications perform a data communicating process from  
a status at a point immediately before starting the voice communications when the data  
communications are resumed,

wherein step (b) is executed in the server and the terminal, and

wherein said steps (d) and (e) are followed during the data communications between said terminal and said server, and said data stored in step (e) is accessed during the voice communications so that said data stored in step (e) is displayed during the voice communication, thereby establishing virtual data communications during the voice communications.

**10. (original)** The communications method according to claim 9, further comprising the step of:

fetching a telephone number of the third party as information by said terminal during the data communications.

**11. (previously presented)** The communications method according to claim 9, wherein

said step (b) is followed when said terminal issues a voice communications request to the third party, and two calls are connected by a telephone switch unit provided on a server side, thereby realizing voice communications between said terminal and said third party.

**12. (previously presented)** The communications method according to claim 11, wherein

said step (b) is followed on a server side when said terminal issues to said server a request to voice-communicate with the third party;

said server, a telephone of the third party, and said terminal enter a 3-point communications state based on a 3-point communications function of said telephone

switch unit, thereby realizing voice communications between said terminal and the third party.

**13. (original)** The communications method according to claim 9, wherein  
said step (b) is followed on a terminal side when said terminal issues to said server a request to voice-communicate with the third party;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and the third party.

**14. (previously presented)** The communication method according to claim 9, further comprising the step of:

(c) managing personal information and communications status on a server side for each user who receives a service from said server, wherein

said terminal issues a call to the third party through the voice communications by following said step (b) based on communications state management in said step (c), thereby establishing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with an other object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**15. (canceled)**

**16. (currently amended)** A server which communicates with a terminal through a communications network, comprising:

a temporary line disconnection unit, monitoring a content of received data from the terminal, and when a specified data is received, disconnecting a line being used for data communications without issuing any disconnection notifications to an upper layer application of the server when said terminal voice communicates with a third party other than the server, when said terminal voice communicates with a third party other than the server through said communications network during the data communications with the server, and automatically connecting the server to the terminal when the voice communications terminate;

an automatic data fetch unit automatically fetching data of web sites including information requested by a user from the server to the terminal; and

wherein a data communicating process is performed from a status at a point immediately before starting the voice communications when the server and the ~~terminal~~ terminal resume the data communications, and

wherein said automatic data fetch unit preliminarily fetches the data obtainable from the server and the server makes the terminal store and display the data, thereby realizing virtual data communications during the voice communications at the terminal side.

**17. (previously presented)** The server according to claim 16, wherein said terminal obtains a telephone number of the third party as information during the data communications.

**18. (previously presented)** The server according to claim 16, further comprising a telephone switch unit; and

wherein said temporary line disconnection unit temporarily disconnects a line between said server and said terminal when said terminal issues a voice communications request to the third party, connecting said telephone switch unit to telephones of the third party and said terminal, connecting two calls on a server side, thereby realizing voice communications between said terminal and the third party.

**19. (previously presented)** The server according to claim 18, wherein said temporary line disconnection unit temporarily disconnects the line between said terminal and said server when said terminal issues a request for voice communications with the third party to said server; and

said server, a telephone of said third party, and said terminal enter a 3-point communications state based on a 3-point communications function of said telephone switch unit, thereby realizing the voice communications between said terminal and said third party.

**20. (previously presented)** The server according to claim 16, further comprising: at least one first unit for each user who receives a service of said server, for managing personal information and communications status of each user, wherein

said terminal temporarily disconnects a line between said terminal and said server according to an instruction from said first unit when said terminal issues a request for voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with other object which is in said terminal and also manages



personal information, before communication by the user, thereby said terminal can receive a call.

**21. (previously presented)** The server according to claim 16, wherein said automatic data fetch unit is transmitted from a server side to the terminal side when the data communications start.

**22. (previously presented)** A terminal communicating with a server through a communications network, comprising:

a temporary line disconnection unit, monitoring a content of received data from the server, and when specified data is received, disconnecting a line being used for data communications without issuing any disconnection notifications to an upper layer application of the terminal when said terminal voice communicates with a third party other than the server through said communication network during the data communications with the server, and automatically connecting the server to the terminal when the voice communications terminate;

an automatic data fetch unit automatically fetching data of web sites including information requested by a user from the server to the terminal; and

a storage unit storing the data fetched by said automatic data fetch unit,

wherein a data communicating process is performed from a status at a point immediately before starting the voice communications when the server and the terminal resume the data communications, and

wherein said automatic data fetch unit preliminarily fetches the data obtainable from the server and stores the data in said storage unit during the data communications, and accesses said storage unit during the voice communications so that the data in said

storage unit is displayed during the voice communication, thereby realizing virtual data communications during the voice communications.

**23. (previously presented)** The terminal according to claim 22, wherein said terminal obtains a telephone number of the third party as information during the data communications.

**24. (previously presented)** The terminal according to claim 22, wherein said temporary line disconnection unit temporarily disconnects a line between said server and said terminal when said terminal issue a voice communications request to the third party, connecting a telephone switch unit which is provided in the server to telephones of the third party and said terminal, connecting two calls on a server side, thereby realizing voice communications between said terminal and the third party.

**25. (previously presented)** The terminal according to claim 24, wherein the server temporarily disconnects the line between said terminal and said server when said terminal issues a request for voice communications with third party to said server; and

said server, a telephone of said third party, and said terminal enter a 3-point communications state base on a 3-point communications function of said telephone switch unit, thereby realizing the voice communications between said terminal and said third party.

**26. (previously presented)** The terminal according to claim 22, wherein said temporary line disconnection unit temporarily disconnects the line when said terminal issues a request for voice communications with the third party to said server; and

said terminal issues a voice communications call to the third party, thereby realizing the voice communications between said terminal and said third party.

**27. (previously presented)** The terminal according to claim 22, wherein

said temporary line disconnection unit temporarily disconnects a line between said terminal and said server according to an instruction from a first unit which is provided in the server and which manages personal information and communications status of each user, when said terminal issues a request for voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with other object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**28. (previously presented)** The terminal according to claim 22, further comprising:

a unit receiving said automatic data fetch unit, wherein

said automatic data fetch unit is transmitted from a server side to the terminal side when the data communications start.

**29. (currently amended)** A communication system comprising:

a server for providing information;

a terminal for communicating data with the server;

a communication network for connecting said server to said terminal; and

temporary line disconnection means, provided in the server and the terminal, for monitoring a content of received data from the server and from the terminal, and when specified data is received, disconnecting a line being used for data communications without issuing any disconnection notifications to an upper layer application of said terminal and said server when said terminal voice-communicates with a third party other than said server through said communication network during the data communications with said server, and automatically connecting said server to said terminal when the voice communications terminate, wherein

a data communicating process is performed from a status at a point immediately before starting the voice communications when said server and said terminal resume the data communications.

**30. (previously presented)** The communication system according to claim 29, wherein

said terminal obtains a telephone number of the third party as information during the data communications.

**31. (previously presented)** The communications system according to claim 29, wherein

said server comprises a telephone switch unit; and

said temporary line disconnection unit temporarily disconnects a line between said server and said terminal when said terminal issues a voice communications request to the third party, connecting said telephone switch unit to telephones of the third party and said terminal, connecting two calls on a server side, thereby realizing voice communications between said terminal and the third party.

**32. (previously presented)** The communications system according to claim 31, wherein

said temporary line disconnection unit provided on the server side temporarily disconnects the line between said terminal and said server when said terminal issues a request for voice communications with the third party to said server; and

said server, a telephone of said third party, and said terminal enter a 3-point communications state based on a 3-point communications function of said telephone switch unit, thereby realizing the voice communications between said terminal and said third party..

**33. (previously presented)** The communication system according to claim 29, wherein

said line temporary disconnection unit provided on a terminal side temporarily disconnects the line when said terminal issues a request for voice communications with the third party to said server, and

said terminal issues a voice communications call to the third party, thereby realizing the voice communications between said terminal and said third party.

**34. (previously presented)** The communication system according to claim 29, further comprising:

at least one first unit, provided on a server side for each user who receives a service of said server, for managing personal information and communications status of each user, wherein

said temporary line disconnection unit provided on a terminal side temporarily disconnects a line between said terminal and said server according to an instruction from said first unit when said terminal issues a request for voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with an other object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**35. (previously presented)** The communication system according to claim 29, further comprising:

an automatic data fetch unit automatically fetching data from said server to said terminal; and

a storage unit storing data fetched by said automatic data fetch unit, wherein

said automatic data fetch unit preliminarily fetches data obtainable from said server and stores the data in said storage unit during the data communications, and accesses said storage unit during the voice communications so that the data in said storage unit is displayed during the voice communication, thereby realizing virtual data communications during the voice communications.

**36. (previously presented)** The communications system according to claim 29, further comprising:

means for receiving said automatic data fetch unit on a terminal side, wherein  
said automatic data fetch unit is transmitted from a server side to the terminal side  
when the data communications start.

**37. (currently amended)** A communications method comprising the steps of:

(a) connecting a line from a server to a terminal for providing information for data  
communications with the server through a communications network;

(b) monitoring a content of received data from the server and from the terminal,  
for specified data; and

(b) disconnecting the line being used for data communications when said  
specified data is received without issuing any disconnection notifications to an upper  
layer application of said terminal and said server when said terminal voice-communicates  
with a third party other than said server through said communications network during the  
data communications with said server, and automatically connecting said server to said  
terminal when the voice communications terminate, wherein

said upper layer application performs a data communicating process from a status  
at a point immediately before starting the voice communications when the data  
communications are resumed.

**38. (previously presented)** The communications method according to claim 37,  
further comprising the step of:

fetching a telephone number of the third party as information by said terminal  
during the data communications.

**39. (previously presented)** The communications method according to claim 37,  
wherein

said step (b) is followed when said terminal issues a voice communications request to the third party, and two calls are connected by a telephone switch unit provided on a server side, thereby realizing voice communications between said terminal and said third party.

**40. (previously presented)** The communications method according to claim 39, wherein

said step (b) is followed on a server side when said terminal issues to said server a request to voice-communicate with the third party;

said server, a telephone of the third party, and the terminal enter a 3-point communications state base on a 3-point communications function of said telephone switch unit, thereby realizing voice communications between said terminal and the third party.

**41. (previously presented)** The communications method according to claim 37, further comprising the step of:

(c) managing personal information and communications status on a server side for each user who receives a service from said server, wherein

said terminal issues a call to the third party through the voice communications by following said step (b) based on communications state management in said step (c), thereby establishing voice communications between said terminal and said third party.

**42. (previously presented)** The communications method according to claim 37, further comprising the step of:

(c) managing personal information and communications status on a server side for each user who receives a service from said server, wherein



said terminal issues a call to the third party through the voice communications by following said step (b) based on communications state management in said step (c), thereby establishing voice communications between said terminal and said third party, wherein the server has an object which manages personal information, and the object communicates with an other object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**43. (previously presented)** The communications method according to claim 37, further comprising the steps of:

(d) automatically fetching data from said server; and

(e) storing data fetched at step (d), wherein

said steps (d) and (e) are followed during the data communications between said terminal and said server; and

said data stored in step (e) is accessed during the voice communications so that said data stored in said step (e) is displayed during the voice communication, thereby establishing virtual data communications during the voice communications.

**44. (currently amended)** A server which communicates with a terminal through a communications network, comprising:

a temporary line disconnection unit monitoring a content of received data from the server and from the terminal, and when specified data is received, disconnecting a line being used for data communications without issuing any disconnection notifications to an upper layer application of the server when said terminal voice communicates with a third party other than the server, when said terminal voice communicates with a third party other than the server through said communication network during the data

communications with the server, and automatically connecting the server to the terminal when the voice communications terminate, wherein

a data communicating process is performed from a status at a point immediately before starting the voice communications when the server and the terminal resume the data communications.

**45. (previously presented)** The server according to claim 44, wherein said terminal obtains a telephone number of the third party as information during the data communications.

**46. (previously presented)** The server according to claim 44, further comprising a telephone switch unit; and wherein said temporary line disconnection unit temporarily disconnects a line between said server and said terminal when said terminal issues a voice communications request to the third party, connecting said telephone switch unit to telephones of the third party and said terminal, connecting two calls on a server side, thereby realizing voice communications between said terminal and the third party.

**47. (previously presented)** The server according to claim 46, wherein said temporary line disconnection unit temporarily disconnects the line between said terminal and said server when said terminal issues a request for voice communications with the third party to said server; and

said server, a telephone of said third party, and said terminal enter a 3-point communications state based on a 3-point communications function of said telephone switch unit, thereby realizing the voice communications between said terminal and said third party.

**48. (previously presented)** The server according to claim 44, further comprising:  
at least one first unit for each user who receives a service of said server, for  
managing personal information and communications status of each user, wherein

said terminal temporarily disconnects a line between said terminal and said server  
according to an instruction from said first unit when said terminal issues a request for  
voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party,  
thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the  
object communicates with another object which is in said terminal and also manages  
personal information, before communication by the user, thereby said terminal can  
receive a call.

**49. (previously presented)** The server according to claim 44, wherein  
said automatic data fetch unit is transmitted from the server side to the terminal  
side when the data communications start.

**50. (currently amended)** A terminal communicating with a server through a  
communications network, comprising:

a temporary line disconnection unit monitoring a content of received data from  
the server and from the terminal, and when a specified data is received, disconnecting a  
line being used for data communications without issuing any disconnection notifications  
to an upper layer application of the terminal when said terminal voice communicates with  
a third party other than the server through said communications network during the data

communications with the server, and automatically connecting the server to the terminal when the voice communications terminate, wherein

a data communicating process is performed from a status at a point immediately before starting the voice communications when the server and the terminal resume the data communications.

**51. (previously presented)** The terminal according to claim 50, wherein said terminal obtains a telephone number of the third party as information during the data communications.

**52. (previously presented)** The terminal according to claim 50, wherein said temporary line disconnection unit temporarily disconnects a line between said server and said terminal when said terminal issues a voice communications request to the third party, connecting a telephone switch unit which is provided in the server to telephones of the third party and said terminal, connecting two calls on a server side, thereby realizing voice communications between said terminal and the third party.

**53. (previously presented)** The terminal according to claim 52, wherein the server temporarily disconnects the line between said terminal and said server when said terminal issues a request for voice communications with third party to said server; and

said server, a telephone of said third party, and said terminal enter a 3-point communications state based on a 3-point communications function of said telephone switch unit, thereby realizing the voice communications between said terminal and said third party.

**54. (previously presented)** The terminal according to claim 50, wherein

said temporary line disconnection unit temporarily disconnects the line when said terminal issues a request for voice communications with the third party to said server; and

said terminal issues a voice communications call to the third party, thereby realizing the voice communications between said terminal and said third party.

**55. (previously presented)** The terminal according to claim 50, wherein

said temporary line disconnection unit temporarily disconnects a line between said terminal and said server according to an instruction from a first unit which is provided in the server and which manages personal information and communications status of each user, when said terminal issues a request for voice communications with the third party to said server;

said terminal issues a call through the voice communications to the third party, thereby realizing voice communications between said terminal and said third party,

wherein the server has an object which manages personal information, and the object communicates with another object which is in said terminal and also manages personal information, before communication by the user, thereby said terminal can receive a call.

**56. (previously presented)** The terminal according to claim 50, further comprising:

a unit receiving said automatic data fetch unit, wherein

said automatic data fetch unit is transmitted from a server side to the terminal side when the data communications start.